

CHILIKIN, Mikhail Grigor'yevich; SANDLER, A.S., red.

[General course in electric drives] Obshchii kurs elektro-
privoda. Izd.4., dop. 1 perer. Moskva, Energiia, 1965.
542 p. (MIRA 18:7)

CHILIKIN, M.G., doktor tekhn. nauk, prof. (Moskva); PETROV, I.I., prof.
doktor tekhn. nauk (Moskva); VORONETSKIY, B.B., dotsent, kand.
tekhn. nauk (Moskva)

Trends in the development of automated electric drives. Elektri-
chestvo no.3:1-7 Mr '65. (MIRA 18:6)

8896-66 EWT(1)
ACC NR: AP5027635

44,55 SOURCE CODE: UR/0105/65/000/009/0007/0012
AUTHOR: Chilikin, M. G. (Doctor of technical sciences, Professor);
Arakelyan, A. K. (Candidate of technical sciences); Afanas'yev, A. A. (Engineer)
44,55

44,55 ORG: Moscow Power-Engineering Institute (Moskovskiy energeticheskiy institut);
The Volga Branch of MEI (Volzhskiy fillial MEI)

44,55 TITLE: Some potentialities of the commutatorless d-c drive

SOURCE: Elektrichestvo, no. 9, 1965, 7-12

TOPIC TAGS: electric power drive, dc power drive, commutatorless motor 29
44,55

ABSTRACT: A theoretical and experimental investigation of a synchronous motor supplied by d.c. via a d-c/a-c inverter is presented. The inverter designed with thyratrons or semiconductor devices is synchronized with the rotor by means of a rotating emf induced in the stator windings by the rotor field. By setting a

UDC: 621.34:621.3.024
2

Card 1/2

L 8896-66

ACC NR: AP5027635

definite relation (formulas are developed) between the motor mechanical load and the excitation current, static and dynamic stability can be achieved which precludes out-of-step conditions on overloads. Inverter-power and motor mechanical characteristics are shown; they are constructed from experimental data obtained with this motor: 4.5 kw, 127 vac, 15.6 amp, 1500 rpm; stator-winding synchronous leakage reactance, 1 ohm. An electric drive based on the above motor permits providing a two-range continuous speed adjustment within wide limits. The system is recommended for driving mechanisms that require wide-range speed adjustment and large high-speed synchronous motors. Orig. art. has: 5 figures, 45 formulas, and 4 tables.

SUB CODE: 09 / SUBM DATE: 17Apr65 /

Cord 2/2 *ado*

VESELOV, S.I.; GUSHCHINA, N.; MAKUSHKIN, L.G.; RULINA, L.B.; CHICHILLO, I.K.;
SHABUNIN, Ye.M.; ~~CHILIKIN, M.G.~~ prof.; YUSHKOV, S.B.; GOSIS, I.N.;
RYABTSEV, N.I.; KRUPOVICH, V.I.; PETROV, N.I.; PATARUYEV, A.D.;
BEYRAKH, Z. Ya., doktor tekhn. nauk

Twenty-first anniversary of the publication "Promyshlennaya
energetika". Prom. energ. 21 no. 1:5-7 Ja '66 (MIRA 19:1)

1. Nachal'nik Gosudarstvennoy inspeksii po energeticheskomu nadzoru Ministerstva energetiki i elektrifikatsii SSSR (for Veselov).
2. Moskovskoye pravleniye nauchno-tekhnicheskogo obshchestva energeticheskoy promyshlennosti (for Gushchina).
3. Predsedatel' Sverdlovskogo pravleniya Nauchno-tekhnicheskogo obshchestva energeticheskoy promyshlennosti (for Makushkin).
4. Glavnyy energetik Pervogo gosudarstvennogo podshipnikovogo zavoda (for Chichilo).
5. Glavnyy energetik Moskovskogo metal-lurgicheskogo zavoda "Serp i molot" (for Shabunin).
6. Rektor Moskovskogo energeticheskogo instituta (for Chilikin).
7. Glavnyy inzhener instituta Tyazhpromelektroproyekt (for Krupovich).
8. Glavnyy konstruktor Moskovskogo zavoda teplovoy avtomatiki (for Beyrakh).

1. 10096-66

ACC NR: AP6004977

SOURCE CODE: UR/0105/65/000/003/0090/0090

AUTHOR: Aleksenko, G. V.; Borisenko, N. I.; Voronetskiy, B. B.; Gladilin, L. V.;
Druzhinin, N. N.; Petrov, I. I.; Syromyatnikov, I. A.; Tishchenko, N. A.;
Chernichkin, D. S.; Chilikin, M. G.

ORG: none

TITLE: Professor Vyacheslav Semenovich Tulin on his 60th birthday

SOURCE: Elektrichestvo, no. 3, 1965, 90

TOPIC TAGS: mechanical engineering personnel, electric engineering personnel

ABSTRACT: Professor V. S. TULIN was born in November 1904 and graduated from the Kharkov Engineering Institute in 1925. He has since then specialized in the application of electric drives for the mining industry, in low-voltage apparatus and more recently in automation. At the present time he is the chairman of the Department of Automation and Control Machinery at the Moscow Institute of Radio-Electronics and Mining Electromechanics. He has made major contributions in his field: he is the author of 80 published works including a textbook on the automation of production processes in the mining industry; he also received an award in 1948 in connection with the Donets Basin development. He now participates in ministerial councils and committees concerned with scientific-research work, industrial coordination, also secondary and higher education. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 13, 09 / SUBM DATE: none

Card 1/1 HW

UDC: 621.34:65.011.56

L 11546-66 EWT(d)/EWP(k)/EWP(1)

ACC NR: AP6005030

SOURCE CODE: UR/0105/65/000/001/0092/0092

AUTHOR: Basharin, A. V.; Bystrov, A. M.; Veshenevskiy, S. N.; Voronetskiy, B. B.;
Drozdov, N. G.; Druzhinin, N. N.; Il'inskiy, N. F.; Petrov, I. I.; Petrov, L. P.;
Sandler, A. S.; Sokolov, M. M.; Chilikin, M. G.

ORG: none

TITLE: Professor Andrey Trifonovich Golovan

SOURCE: Elektrichestvo, no. 1, 1965, 92

TOPIC TAGS: electric engineering, electric engineering personnel

ABSTRACT: A brief obituary containing the following biographical information:
Deceased was a doctor of technical sciences, a professor (Department of Electrical
Equipment for Industrial Enterprises) of the Moscow Power Engineering Institute
for the past 30 years, and a staff member since 1931 of the TsNIITMash (Central
Scientific-Research Institute of Heavy Machine Building). Died 15 Sep 64, at age
63, after a long and severe illness. In 1926, after graduating from the Leningrad
Electrical Engineering Institute im. Ul'yanov, deceased became director of a
substation within the Gor'kiy GRES. At the TsNIITMash, the deceased worked out
the methods for computing the electric drive of presses, drop hammers and other
machine tools with percussion loads. The monograph on these methods has gained
wide professional recognition. Deceased trained several thousand engineers and
over 30 doctors and candidates of science. He authored over 50 scientific works,
including the textbook "Osnovy Elektroprivoda" (Fundamentals of Electric Drive)

Cord//2

WDC: 621.34(093.32)

30
29
B

L 11546-66

ACC NR: AP6005030

published in 1948, with a revised second edition in 1959. He was awarded the
Order of the Badge of Merit twice, and other decorations. Orig. art. has: 1 figure.
JPRS/14

SUB CODE: 09 / SUBM DATE: none

HW
Card 2/2

AP(k)/EMP(h)/EMT(d)/EMP(l)/EMP(y)
013621
Aleksenko, G. V.; Biryukov, V. G.; Borisenko, N. I.; Borushko, N.
N. N.; Kostenko, M. P.; Oolenekly, N. A.; Petrov, G. N.; Roizand, N.
I. I.; Timofeyev, P. V.; Chilikin, N. G.; Sheremetevskiy, N. A.
ORG: none
TITLE: Honoring the 60th birthday of Professor Andronik Gevondovich Iosif'yan
SOURCE: Elektrichestvo, no. 9, 1965, 88
TOPIC TAGS: academic personnel, scientific personnel, automation, electric engineering,
servosystem, automatic control
ABSTRACT: 21 July 1965 was the 60th birthday of the eminent So-
viet scientist in the field of electrical mechanics and automa-
tion, Dr. Techn. Sci., Professor, Member of the State Prize, A. G.
Iosif'yan. His scientific contributions are numerous. Subsequent
to 1931-1934 he developed the theory of the combined synchro-
nized circuit with AC commutator generator. During 1940-1945 he
published the theory of electrical machinery. During 1940-1945 he
contributed to the theory of electrical machinery.
control by publishing studies on the general

ACC NR: AP6013621

SWP(k)/SWP(h)/SWT(d)/SWP(l)/SWP(v)

SOURCE CODE: UR/0105/65/000/009/0088/0088

AUTHOR: Aleksenko, G. V.; Biryukov, V. G.; Borisenko, N. I.; Borushko, V. S.;
Kovalev, N. N.; Kostenko, M. P.; Obolenskiy, N. A.; Petrov, G. N.; Rozanov, A. A.;
Skidanenko, I. T.; Timofeyev, P. V.; Chilikin, M. G.; Sheremet'yevskiy, N. N.

ORG: none

TITLE: Honoring the 60th birthday of Professor Andronik Gevondovich Iosif'yan

SOURCE: Elektrichestvo, no. 9, 1965, 88

TOPIC TAGS: academic personnel, scientific personnel, automation, electric engineering,
servosystem, automatic control

ABSTRACT: 21 July 1965 was the 60th birthday of the eminent Soviet scientist in the field of electrical mechanics and automation, Dr. Techn. Sci., Professor, Member of the AS Armenian SSR, Hero of Socialist Labor, Laureate of the State Prize, A. G. Iosif'yan. His scientific contributions are numerous. During 1931-1934 he developed the theory of the combined synchronous control circuit with AC commutator generator. Subsequently, he invented the contactless selsyn. He was the first Soviet scientist to publish studies of thyatron-based servosystems for the control of electrical machinery. During 1940-1945 he made a major contribution to the theory of electrical machinery and automatic control by publishing studies on the general theory of the electro-

Card 1/2

UDC: 621.3:65.011.56

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tromechanical amplifier (amplidyne) and power-driven synchronous servosystems. In his 35 years of scientific activity A. G. Iosif'yan has published more than 60 studies on many problems of electrical mechanics and automatic control and has been the author of 24 inventions. A. G. Iosif'yan is the founder and director of the All-Union Order of Labor Red Banner Scientific Research Institute of Electromechanics, and it was on his initiative that branches of this institute have been established in Leningrad, Tomsk, Yerevan, Frunze, Iskra, and Kudinovo. Between 1950 and 1955 he held the elective office of Vice President of the Armenian Academy of Sciences, and since 1955 he has been Editor-in-Chief of the journal Elektrotehnika (Electrical Engineering). He is also the bearer of many other honors. Among other things, he was elected delegate to the 22nd Congress of the CPSU. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 09 / SUBM DATE: none

Cord 2/2 20

L 22593-66

ACC NR: AP6013000

SOURCE CODE: UR/0105/65/000/006/0091/0091

AUTHOR: Bamdas, A. M.; Bol'sham, Ya. M.; Borchaninov, G. S.; Glazunov, A. A.;
Zalesskiy, A. M.; Konstantinov, B. A.; Livshits, D. S.; Iyuhkovskiy, V. L.; Miller,
G. R.; Petrov, I. I.; Pleskov, V. I.; Samover, M. L.; Syromyatnikov, I. A.;
Chilikin, M. G.

ORG: none

TITLE: Professor Yu. L. Mukoseyev (on the occasion of his 60th birthday)

SOURCE: Elektrichestvo, no. 6, 1965, 91

TOPIC TAGS: scientific personnel, electric power production

ABSTRACT: Professor Yuriy Leonidovich Mukoseyev, 60, chairman of the department "Elektrosnabzheniye promyshlennykh predpriyatiy i gorodov (Electrical Supply of Industrial Enterprises and Cities)" of the Gor'kovskiy politekhnicheskii institut (Gor'kiy Polytechnic Institute) began his studies at the Gorkiy (Nizhegorod) University. After several years at the "Krasnoye Sorinovo" plant he joined in 1935 the Glavelektromontazh system where in 27 years he advanced to the position of chief engineer of the Gorkiy section of the designing institute Elektroproyekt. In 1951 he published his book "Voprosy elektrosnabzheniya promyshlennykh predpriyatiy (Problems of Electrical Supply of Industrial Enterprises)"; in 1956 at the Moskovskiy energeti-

Card 1/2

UDC: 621.311

AP6013000

cheskiy institut (Moscow Power Institute) he defended his thesis "Distribution of Alternating Currents in Current Conductors". He became professor in 1960. From 1939 he has been continuously the vice-president of the Gorkiy board of the Scientific-Engineering Society of Power Engineers (NTD energotikov). Recently, Yu. L. Mukoseyev participated in the work of the Uchebno-metodicheskaya komissiya MV (Pedagogical-Methodological Commission of the Ministry of Armament) and of the SSO [?] USSR for the Electrical Supply of Industrial Enterprises and of Cities." Orig. art. has: 1 figure. [JPRS]

SUB CODE: 10 / SUBM DATE: none

Card 2/2 *Ma*

I, 27948-66

ACC NR: AP6017708

SOURCE CODE: UR/0105/66/000/001/0085/0086

AUTHOR: Bertinov, A. I.; Voronetskiy, B. B.; Gendel'man, B. R.; Girshberg, V. V.;
Gromov, V. I.; Druzhinin, N. N.; Kunitskiy, N. P.; Naumenko, I. Ye.; Petrov, I. I.;
Vetrov, G. N.; Rusakov, V. G.; Silavev, E. F.; Slezhanovskiy, O. V.;
Syromyatnikov, I. A.; Tulin, V. S.; Filin, N. M.; Teelikov, A. I.; Chilikin, M. G.;
Yun'kov, M. G.

ORG: none

TITLE: Engineer N. A. Tishchenko (on his 60th birthday)

SOURCE: Elektrichestvo, no. 1, 1966, 85-86

TOPIC TAGS: electric engineering personnel, metallurgic furnace, electric equipment

ABSTRACT: Nikolay Afanas'yevich Tishchenko completed the Khar'kov Electrotechnical Institute in 1930, after working as an electrician in a Metallurgical plant from 1923-1926. He was active in the development of domestically produced electrical equipment for rolling mills and metallurgical furnace works. He was active during WWII in restoring electrical equipment damaged by the Germans. After the war, he was active in developing electrical drive equipment for both domestic and foreign metallurgical plants. He has been active in scientific work, publishing over 45 works in such varied fields as electric drives, equipment reliability and productivity of labor. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 09, 13 / SUBM DATE: none

Cord 1/1 BLG

UDC: 621.34

L 27947-66

ACC NR:

AP6017709

SOURCE CODE: UR/0105/66/000/001/0086/0086 (12)

AUTHOR: Avilov-Karnaukhov, B. N.; Bol'sham, Ya. M.; Venikov, V. A.; Volobrinskiy, S. D.; Yermilov, A. A.; Konstantinov, B. A.; Knyazevskiy, B. Ye.; Minin, G. P.; Miller, G. R.; Mukoseyev, Yu. L.; Petrov, I. I.; Serbinovskiy, G. V.; Syromyatnikov, I. A.; Fedorov, A. A.; Kholmakiy, G. V.; Shagalov, A. S.; Chilikin, M. G.

ORG: none

TITLE: Prof. Georgiy Mikhaylovich Kayalov (on his 60th birthday) 37

SOURCE: Elektrichestvo, no. 1, 1966, 86 10

TOPIC TAGS: academic personnel, electric engineering personnel, electric equipment

ABSTRACT: In 1929, G. M. Kayalov completed the electrotechnical department of the Mechanical Faculty of the Novocherkassk Polytechnical Institute. Until 1947, he worked in the planning department of the Rostov Division of the All-Union Electrotechnical Union. In this time, he rose to the position of Chief Engineer. He directed the planning of a large number of important pieces of electrical equipment for various projects. He was active in the postwar restoration of many important industrial enterprises. He is the author of almost 70 published works, and has made a great contribution to modern, scientifically based methods of design and analysis of electrical loads for industrial equipment. He is on a number of commissions and in many scientific and technical societies. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 09 / SUBM DATE: none

Card 1/1

BLG

UDC: 621.34 2

26

CO

Drying-oil substitute. M. M. Chishin. Russ. 104, July 26, 1923. A drying-oil substitute is prepd. from pine tar heated to above 150° together with Pb, Mn or Cu salts and the mass obtained is dild. with turpentine or other org. solvents.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

10000 00 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00

co

25

Brown sulfur dyes. M. M. Chilikin. Russ. 335, July 6, 1922. A mixt. of naphthencarboxylic acids and NaOH is fused in the usual manner with Na_2S and S in the presences or absence of Cu and Zn salts until the melt is dry.

ca

23

The heat of adsorption of sodium hydroxide by the cellulose and the heat of mercerization. *Al. M. Chumachenko. Zhur. Prikladnoi Khimii 3, 221-30(1930); cf. C. A. 24, 1972.*— Egyptian cotton contg. 8.40% moisture liberates 704.2 cal. per mol. of $C_{12}H_{22}O_{10}$ when it is wetted with water, while dry cotton liberates 1319.2 cal. and dry mercerized cotton 2351.6 cal. When wetted with 80% $NaOH$ soln. dry cotton liberates 1307.54 cal. and dry mercerized cotton 2300.45 cal. The heat of adsorption of $NaOH$ is greater if cotton is purified by boiling in water and not in $NaOH$. Mercerization is not accompanied by evolution of any appreciable amt. of heat. The heat of adsorption also depends on the colloidal state of the fibers. The amt. of heat given off gradually increases as the $NaOH$ concn. in the soln. is increased irrespective of the quantity of $NaOH$ adsorbed by the cellulose. In this respect mercerized and raw cellulose behave alike. The change in $NaOH$ concn. on the cellulose has no influence on the amt. of heat evolved in wetting such cellulose with the $NaOH$ solns. of various strengths. The heat of mercerization is greater when raw cotton is employed and not the cotton which was purified by boiling in water. If cotton is wetted with $NaOH$ soln. weaker than 35° Bé. the evolution of heat begins within the first few min. but when stronger $NaOH$ solns. are used the cotton is wetted only with difficulty and considerable time is required before all of the heat is given off. This shows that the 35° Bé. soln. is the limiting concn. for mercerization of the cellulose in practice. Thermal data do not indicate formation of $2C_{12}H_{22}O_{10} \cdot NaOH$. The heating effect is due to adsorption of $NaOH$ by the cellulose and not to a chem. reaction. V. KALICHVANSKY

ASD-51A METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDER		PROCESSING AND PROPERTIES INDEX		3RD AND 4TH ORDER	
20 Emulsification process of cottonizing. M. M. CHURKIN AND R. I. KERIMES. <i>Nit (Suppl. to Izvestiya Tekhn. Prom. i. Vsesoyuz. 1, Nos. 10-11, 12(1931); Khimie & Industrii 25, 1801.</i>—Until recently cottonizing of flax waste was carried out by cooking 4-6 hrs. at 135° and 2 atm. with a 10% NaOH soln. contg. 1% of "contact." C. and K. succeeded in reducing the temp. to 100° by increasing the no. of reagents used, which has also permitted of making the process continuous. Cottonizing was carried out on 1274 kg. of goods by treating 1 hr. with 10% NaOH, 5% of "contact," 5% Na silicate and 5% NaHSO₄, which yielded a very pure product that was soft to the touch and bleached well. The only drawback was that the process was more expensive than the usual one. Attempts were made to cheapen the process and best results were obtained by treating 1 hr. at 40-50° with 10% NaOH contg. 5% Na silicate and keeping 1 hr. at 90°. Analysis of the liquor after boiling showed it still contained about 50% of the NaOH originally used, so that it could be re-used after fortifying. The process permits of reducing the time of treatment and of combining the boiling and dyeing treatments. A. PAPINIAN-CRITTER					
ASAC-32/4 METALLURGICAL LITERATURE CLASSIFICATION SHOW SYMBOLIC SHOW SYMBOLIC SHOW SYMBOLIC					

The chemistry of hypochlorite bleaching. M. M. CHILKIN. *Izvestiya Tekstil. Prom.* 10, No. 9, 47-52(1931); *Chimie & industrie* 28, 165-6.—A review of the reactions involved in the hypochlorite bleaching of textiles. A. PAPINEAU-COUTURE

25

1A

Stability of waterproofing agents prepared from aluminum compounds. M. M. CASLERMAN AND M. N. SUMMERS. *Izvestiya Tekhn. Prom. Torgov.* 10, No. 12, 73-6(1931); *Chinese & Industrie* 23, 414. — Fabrics are waterproofed with Al salts by passing the fabric through a bath contg. soap, stearin and paraffin and then through a 2nd bath contg. various Al salts of variable concns. It has been found in practice that the process does not give very satisfactory results and that the degree of waterproofness decreases in time. To det. the destructive action of atm. agents, C. and S. carried out tests using different relative proportions of the ingredients of the 2 baths and using neutral and basic Al acetate and Al formate; the treated samples were then exposed to the air, facing south, for 2 months. The side exposed to light was decolorized, and the fabric became smoother to the touch. The tensile strength had undergone but little change (10% decrease), but the waterproofness had been decreased by up to 50%. The nature of the Al salt is of but secondary importance.

A. PATRINHAU-COUTURE

117 AND 120 DRUMS PROCESSES AND PROPERTIES INDEX

Indigoid colors. Esters of leucothioindigo. M. M. CHILIKIN AND A. P. KARPOVA
 (Doklady Akad. Nauk SSSR, No. 1, 31 (1972)) Cf. Madelung and Haller, C. J. 18
 2164; C. Liebermann, Ann. 212, 60 (1892). Also in J. Gen. Chem. (U. S. S. R.), 4,
 1168-61 (1931). CHAR. BLANC

ASB-5LA METALLURGICAL LITERATURE CLASSIFICATION

117 AND 120 DRUMS PROCESSES AND PROPERTIES INDEX

25

Accelerated bleaching of linen. M. M. Chilikin. Za
Rukovodstva Tekstil. Prom. 13, No. 2, 81-4(1934);
Zhurnal Tekstil. Prom. 13, 663. --A brief discussion of the
bleaching and bleaching of linen from the standpoint of ob-
taining optimum results in the min. of time. A. P. C.

Chloramine of flax, its determination in the fiber and methods of its removal. M. M. Chilikin and A. T. Ivanova. *L'An-Pen-to-Ishikawa* Prom. S. No. 31, 55 III (1935); *Chem. Zvest.* 1937, 1, 507; cf. C. A. J. 31, 5171. The amt. of chloramine for d with NaOCl is greater in the boiled fibers than in the bleached or raw fibers. The Cl is best removed with boiling soda soln. in the presence of sulfite. The Cl is best detected with starch-iodide paper or o-tolidine and detd. with Na aspartate. M. G. Moore

25

100

PROCESSES AND PROPERTIES

Pectin substances of cotton. M. M. Chikhai and Z. H. Rozov. *J. Applied Chem.* (U.S.S.R. 10, 714-17) (in German 710)(1937). Pectins of cotton are not extd. with water at 40°; at 70-100° the extn. is not complete. Better results are obtained by boiling cotton with water under pressure, but in this case pectins hydrolyze to galacturonic acid. Pectins were completely extd. without decomposition with 0.5% (NH₄)₂C₂O₄ by boiling for 2 hrs. and washing with 90-95% EtOH and finally with H₂O. The pectins were fractionated with 70% EtOH, and the fractions dried in vacuo at 35-40°, and hydrolyzed with 1% H₂SO₄. The products of hydrolysis were identified as arabinose and xylose, but no other sugars were detected. The Ca Mg salt of pectic acid (the residue of the EtOH extn.) was hydrolyzed with 2% H₂SO₄ by boiling on a water bath for 6 hrs., the hydrolyzate was decolorized with animal charcoal, neutralized with excess of Na₂CO₃, filtered, concd. to 1/4 of the original vol. at 40-50° in vacuo, and treated with 95% EtOH (taken in the amt. 5 times of the final vol. of hydrolyzate). The Na salt of galacturonic acid was pptd. and after distn. of the alc., a mixt. of sugars was obtained, contg. arabinose, xylose and fructose. A. A. Podgorny

ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION

6-2

CHILIKIN, M. M.

The chemistry of fibres as the basis for the bleaching process, Moskva, Gos. izd-vo legkoi pr
promyshlennosti, 1938, 105 p.

CHILIKIN, M. M.

Wax-like substances of flax. M. M. Chilikin and
I. D. Kamolova. L'no-Pen'no-Dokladya Prom. 1938,
No. 12, 38-42; Khim. Referat. Zhur. 1939, No. 6, 117.—
Flax and its waste products contain up to 2.5% of wax-
like substances whose content increases to 8.7-13.7%
in flax dust. The wax has acid no. 48.3, sapon. no. 101.2,
I no. (Habl) 20.4, acetyl no. (Brudlet-Ulzer) 20.20 and
unsaponifiable substance 80.3% (mainly hydrocarbons).
It contains neoceryl alc., ceryl alc., myricyl alc., a liv-
drocarbon (m. 82°) corresponding to triacontane, cerotic
acid, stearic acid, palmitic acid and linoleic acid. The
wax can be chlorinated to 38.23% Cl. Cotton material
treated with a soln. of the chlorinated wax is weakened
on heating above 100° as a result of splitting off of HCl.
On drying and on storing in air the chlorinated wax ma-
terial darkens.
W. R. Henn

25

CA

bleaching in the presence of bicarbonate. M. M. Chilikin. *Proc. Leningrad. Univ.* 1939, No. 10, 25; *Khim. Refrat. Zh.* 1940, No. 3, 113.—Although there is a 2% increase in whiteness, and less time is required for bleaching, on addn. of NaHCO_3 , the amt. of Cl required increases, losses in wt. and strength are greater and the Cu no. increases. W. R. Henn

1ST AND 2ND ORDERS
PROCESSES AND PROPERTIES INDEX
3RD AND 4TH ORDERS

COMMON ELEMENTS
COMMON ELEMENTS
COMMON ELEMENTS

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS
3RD AND 4TH ORDERS

25

CA

Bleaching flax yarn and fabric with chlorine gas. M. M. Chilikin and V. F. Lapina. *Pror. Lubyanykh Volokon* 1939, No. 12, 27-8; *Khim. Referol. Zhur.* 1940, No. 6, 116.—Fabric is steeped in alkali, pressed out, treated with Cl gas for 10 min., boiled for 3 hrs. with an emulsifying agent and bleached for 2 hrs. with hypochlorite. Addn. of H_2O_2 decreases the bleaching time by 80%. Cl gas con- siderably accelerates the bleaching process. The tensile strength and other mech. properties of the fabric remain within the limits of standard specifications. W. R. H.

ca

Processes and Properties Index
Dyeing animal fibers. M. M. Chilikin. U.S.S.R.
40,318, May 31, 1946. Fibers of animal origin, such as
wool and silk, are dyed with simple aromatic amines and
the dye is oxidized on the fiber with HNO₃. On both
wool and silk the dyes are fixed with salts of metallic
salts such as those of Cr, Cu, Al, or Fe. M. Ilowich

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

SOURCE #1

CITATIONS:

CA

25

Chemistry of contaminated cotton. M. M. Chilkkin.
Tekstil. Prom. 1949, No. 11, 20-3.—The origins and nature
of noncellulosic impurities in raw cotton are discussed.
Analytical results are given for cellulose, wax, lignin, and
total N in the inner and outer wall of the boll, boll hairs,
seed skin, and leaf of the cotton plant, and for contaminated
samples of raw cotton. The effects of these impurities on
dyeing and bleaching are discussed and methods of reducing
these effects are outlined.
B. A.

CHILIKIN, M.M.; ZUSMAN, M.N.; KOVALENVA, A.G.

Ways of improving the water-repellent qualities of tarpaulin
fabrics. Tekst.prom. 16 no.9:37-40 S '56. (MLRA 9:12)
(Duck (Textile)) (Waterproofing of fabrics)

CHILIKIN, N.

Basic link. Voen. znan. 25 no.4:13-14 Ap '49. (MIRA 12:12)

1. Zamestitel' predsedatelya orgbyuro Dobrovol'nogo obshchestva
sodeystviya armii g. Moskvy.
(Military education)

KAYMAKOV, A.A., inzh.; CHILIKIN, N.A., inzh.

Create explosionproof heating equipment for underground
storage magazines for explosives. Bezop. truda v prom. 8
no.9:38-39 S '64 (MIRA 18:1)

1. Vostochnyy nauchno-issledovatel'skiy institut po bezopasnosti
rabot v gornoy promyshlennosti.

CHILIKIN, V. R.

Converting boiler rooms in Moskvoretskiy District to gas fuel.
Gor.khoz.Mosk. 33 no.4:10 Ap '59. (MIRA 12:6)

1. Predsedatel' ispolkoma Moskvoretskogo rayonnogo Soveta
g.Moskvy. (Moscow--Gas as fuel)

CHILIKIN, Vyacheslav Konstantinovich; KHVOROV, G., otv. red.; KAPLAN, S.,
tekhn. red.

[The Altai Territory in the fifth five-year plan] Altaiskii kraj
v piatoi piatiletke. Barnaul, Altaiskoe knizhnoe izd-vo, 1954.
67 p. (MIRA 16:1)

(Altai Territory--Economic policy)

26234
S/106/60/000/001/004/005
A056/A126

9,2580

AUTHOR:

Chilikin, V. S.

TITLE:

Generator of millimicrosecond impulses [MM-23 (GMI-23)

PERIODICAL:

Elektrosvyaz', no. 1, 1960, 40 - 44

TEXT:

The author describes a portable apparatus, capable of producing impulses of 20, 50 and 100 m/sec, for a frequency range from 10 KHz up to 1.5 Mc. The theoretical bases are given by L. A. Meyerovich and L. G. Zelichenko [Ref. 1: "Impul'snaya Tekhnika" (Pulsation Techniques), ed. 1955 by Sovyetskoye Radio]. The essential parts of the generators are: a) a spread-band input constituted of a cascade of tubes 6P1P; b) a cascade converting the sinusoidal tension into an orthogonal one, from impulses produced by a blocking-generator corresponding to the Schmitt scheme; c) a modulating cascade, built according to the blocking scheme for a steady-state behavior, with 6N6P tubes; d) three cascades producing video-impulses of fixed millimicrosecond time (100, 50, 20), built as shock-excitation amplifiers with tubes 6N6P; e) intermediate divider-cascade; f) set of control indicator (6N5P tube), with output from a bridge of two 6P1P tubes; g) station set. A crystal diode D2D on the loaded impedance ameliorates the im-

Generator of millimicrosecond impulsions...

26234
S/106/60/000/001/004/005
A056/A126

pulse shape by attenuation of the negative feed back. The oscillator allows a simultaneous use of the three impulses. The amplitude is regulated within the limits 0 - 30 V. The polarity of the impulses is positive. Maximum approximation of results: Time-length of impulses - 20 μ sec = +20%, 50 and 100 μ sec = +15%. Amplitude = +10%. There are 5 figures and 6 references: 4 Soviet-bloc and 2 non-Soviet-bloc. The reference to the English-language publication reads as follows: Mac Donald Smith "Millimicrosecond blocking oscillator". Electronic Engin. April, v. 29, 1957.

SUBMITTED: June 15, 1959

Card 2/2

05443
SOV/120-59-3-14/46

AUTHOR: Chilikin, V. V.

TITLE: An Instrument for Measuring One-dimensional Differential and Integral Distribution Laws for Random Quantities
(Pribor dlya izmereniya odnomernykh differentsial'nykh i integral'nykh zakonov raspredeleniya sluchaynykh velichin)

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 3, pp 67-71 (USSR)

ABSTRACT: In this instrument the random input (as a voltage) is compared periodically with a standard voltage U_0 ; the ratio of the number of times n that the input exceeds U_0 to the total number of samples taken N gives the probability n/N ; U_0 is varied in order to derive the integral law. The differential law is derived by scanning the spectrum with a single-channel analyser with a narrow window. The differential and integral sections work independently. The input is transformed to a pulse-width modulation form. The frequency spectrum of the input must not extend above a few kc/s. Fig 1 shows the block diagram; Fig 2 shows the theoretical circuit. The differential output is on the right at

Card 1/2

05443

SOV/120-59-3-14/46

An Instrument for Measuring One-dimensional Differential and
Integral Distribution Laws for Random Quantities

the top; the integral output is at the bottom. The coarse and fine input adjustments are on the left (all scanning is done manually). Fig 3 shows the waveforms occurring at various points in the circuit; Fig 4 gives the probability densities for two samples of Rayleigh noise, and Fig 5 gives the integral distributions corresponding to Fig 4. The errors of the instrument are estimated as $\pm 4\%$ (integral distribution) and $\pm 8\%$ (differential distribution). There are 5 figures.

ASSOCIATION: Institut radiotekhniki i elektroniki AN SSSR
(Institute of Electronics and Radio Engineering,
Academy of Sciences USSR)

SUBMITTED: May 5, 1958

Card 2/2

CHILIKIN, Ya.

Establish a uniform planning procedure. Mor. flot 25 no.2:6-8 F
'65. (MIRA 18:4)

1. Nachal'nik Finansovo-valyutnogo upravleniya Ministerstva
morskogo flota.

VISHNEPOL'SKIY, S.A., kand. ekon. nauk; BAYEV, S.M., inzh. putey soob-
shcheniya; BONDARENKO, V.S.; RODIN, Ye.D.; CHUVLEV, V.P.;
TURETSKIY, L.S.; SMIRNOV, G.S.; SHAPIROVSKIY, D.B.; OBERMEYSTER,
A.M.; SINITSIN, M.T.; KOGAN, N.D.; PETRUCHIK, V.A.; GRUNIN, A.G.;
KOLESNIKOV, V.G.; MARTIROSOV, A.Ye.; KROTKIY, I.B. [deceased];
ZENEVICH, G.B.; MEZENTSEV, G.A.; KOLOMOYTSEV, V.P., kand. tekhn. nauk;
ZAMAKHOVSKAYA, A.G., kand. tekhn. nauk; MAKAL'SKIY, I.I., kand.
ekon. nauk; MITROFANOV, V.F., kand. ekon. nauk; CHILIKIN, Ya.A.;
BAKAYEV, V.G., doktor tekhn. nauk, red. Primali uchastiye:
DZHAVAD, Yu.Kh., red.; GUBERMAN, R.L., kand. ekon. nauk, red.;
RYABCHIKOV, P.A., red.; YAVLENSKIY, S.D., red.; BAYRASHEVSKIY,
A.M., kand. tekhn. nauk, red.; POLYUSHKIN, V.A., red.; BALANDIN,
G.I., red.; ZOTOV, D.K., red.; RYZHOV, V.Ye., red.; BOL'SHAKOV, A.N.,
red.; VUL'FSON, M.S., kand. ekon. nauk, red.; IMITRIYEV, V.I., kand.
ekon. nauk, red.; ALEKSANDROV, L.A., red.; LAVRENOVA, N.B., tekhn.
red.

[Transportation in the U.S.S.R.; marine transportation] Transport
SSSR; morskoi transport. Moskva, Izd-vo "Morskoi transport,"
1961. 759 p. (MIRA 15:2)
(Merchant marine)

CHILIKINA, Lidiya Nikolayevna; SHIFFERS, Yevgeniya Vladimirovna,
doktor biol. nauk. Primala uchastiye: VOLKOVA, I.I.; YARULLINA,
N.A.; PETROVICHEVA, O.L., red. izd-va; GALIGANOVA, L.M., tekhn.
red.

[Map of the vegetation of the Daghestan A.S.S.R.] Karta rasti-
tel'nosti Dagestanskoi ASSR. Otv. red. E.V.Shiffers. Moskva,
Izd-vo Akad. nauk SSSR, 1962. 95 p. (MIRA 16:1)
(Daghestan--Phytogeography--Maps)

CHILIKINA, M.I., kand. sel'skokhozyaystvennykh nauk.

Use correct cultivation practices in collective orchards. Gor.
khoz. Mosk. 32 no. 4:39-41 Apr '58. (MIRA 11:4)

(Moscow—Fruit culture)

X Chilikina, h.D

RUDNAYA, A.I.; SURIKOVA, Ye.Ye.; CHILIKINA, N.D.

Seminar on servicing and repairing flowmeters. Izv.tekh.no.1:83-
84 Ja-Y '57. (MIRA 10:4
(Flowmeters)

BOGORODSKIY, Aleksandr Leonidovich; VOLPIANSKIY, L.M., inzh., red.;
CHILIKINA, N.D., inzh., ved. red.; DUGINA, N.A., tekhn.
red.

[Steel smelting in open-hearth furnaces] Plavka stali v mar-
tenovskikh pechakh. Pod red. L.M.Volpianskogo . Moskva,
Mashgiz, 1961. 45 p. (Nauchno-populiarnaya biblioteka rabo-
chego-liteishchika, no.18) (MIRA 15:3)
(Open-hearth furnaces) (Steel-Metallurgy)

GORSHKOV, O.A.; VOLFYANSKIY, L.M., red.; CHILIKINA, N.D.,
inzh., red.

[Precision casting] Lit'e po vyplavlennym modeliam.
Izd. 2., perer. Moskva, Izd-vo "Mashinostroyeniye,"
1964. 50 p. (MIRA 18:1)

DOKSHITSKAYA, A.I.; GORLACH, I.A.; VOLPYANSKIY, L.M., red.;
CHILIKINA, N.D., inzh., red.

[Electric furnace smelting of steel for shape casting]
Vyplavka stali dlia fasonnogo lit'ia v elektropechakh.
Izd.2., perer. Moskva, Izd-vo Mashinostroenie, 1964. 55 p.
(MIRA 17:8)

D'YACHENKO, I.I.; ANDRUKHOVICH, A.P.; ZOLOTOV, V.A.; CHILIKINA, N.I.

Complaints, their causes, and measures for preventing them. Vest.
svyazi 22 no.7:24-25 JI '62. (MIRA 15:7)

1. Nachal'nik pochtovogo vagona L'vovskogo otdeleniya perevozki
pochty (for D'yachenko). 2. Starshiy bukhgalter Slutskoy kontory
svyazi Minskoy oblasti (for Andrukhovich). 3. Nachal'nik Gor'kovskoy
mezhdugorodnoy telefonnoy stantsii (Zolotov).
(Postal service)

CHILIKINA, Ye. M. 10

ca

Catalytic hydrogenation of furan. Tetrahydrofuran.
 N. I. Shashin and E. M. Chilikina. J. Gen. Chem.
 (U. S. S. R.) 6, 879-83 (1936).—Tetrahydrofuran (I)
 resulted in 100% yield by a 2-stage hydrogenation of furan
 in the presence of 25% Os-asbestos catalyst at 65-70°. I,
 bp 65-6.2°, d₄²⁰ 0.8967, n_D²⁰ 1.400, M. R. 20.0 (obs.), M. R.
 20.12 (calcd.), passed in a weak current of H or CO, over
 Pt pptd. on active C or asbestos at 300-4° showed no
 traces of dehydrogenation. I failed to react with 3 parts
 of 15, 30 and 60% H₂SO₄ by refluxing or heating the mixts.
 in sealed tubes at 110° for 6 hrs. Chas. Blanc

ASH-51A METALLURGICAL LITERATURE CLASSIFICATION

FROM EXTENSION	EXTENSION	FROM ROW/IV	RELATION ONE ONE ONE
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

137 AND 138 (0013)		139 AND 140 (0013)	
CHILIKINA Ye. L. M.		2	
CA The polymerization of chloroprene. 1. Influence of tetraalkylhydroperoxides on the kinetics of the polymerization of chloroprene in the condensed phase. N. Medvedev, V. Chilikina and V. Klimenko. <i>Acta Physicochim. U. S. S. R.</i> 11, 781-88 (1966) (in English).—Exptl. data on the rate, extent and compn. of the product of polymerization at 50-60° with 0-5% hydroperoxide added are given. The total amt. of polymerized chloroprene is given by $x = (h_1 C + h_2) / (h_1 + h_2)$, where h is the const. for the thermal, unassisted reaction, h_1 that for linear and h_2 that for lateral polymerization. C is the concn. of tetraalkylhydroperoxide. Addn. of tetraalkylhydroperoxide increases only the rate of linear polymerization. The activation energies E_a, E_{a1}, E_{a2} and the reaction const. k, k_1, k_2 at 50° are 31.5, 10.5, 20.2 Cal., and 0.03, 0.17, 0.017, resp. The reaction is autocatalytic. The side-chain process can set in only after linear polymerization (thermal or catalytic) has already begun and amounts to a rupture of the chain reaction of the activated linear process. The final chain π form results only when polymerization is far progressed, and is due to a considerable development of the side-chain process, at the same time leading to an increased rate of reaction. P. H. R.			
ASB-11.4 METALLURGICAL LITERATURE CLASSIFICATION		PENTATE, CLCUC	
13000 SYMBOLS		13000 SYMBOLS	
13000 SYMBOLS		13000 SYMBOLS	

600

CHILIKINA, Ye. M.

CHILIKINA4YE8

1. MEDVEDEV, S.; CHILIKINA, Ye.; KLIMENKOV, V.

2. USSR (600)

"The Polymerization of Chlorophrene" Part I. "The Kinetics of the Polymerization of Chlorophrene in the Condensed Phase Under the influence of Hydrogen Peroxide of Tetralin," Zhur. Fiz. Khim, 13, No. 9, 1939. Moscow, Physico-Chemical Institute imeni Karpov, Laboratory of Polymerization Processes. Received 21 April 1939.

Report U-1615, 3 Jan. 1952.

600

CHILIKINA, Ye.M.

CHILIKINA4YE8

1. CHILIKINA, Ye.; MEDVEDEV, S.

2. USSR (600)

"The Joint Action of Hydrogen Peroxide of Tetralin and a Nitro Compound on the Polymerization of Chlorophrene" Part II. Zhur. Fiz. Khim, 13, No. 9, 1939. Moscow, Physico-Chemical Institute imeni Karpov, Laboratory of Polymerization Processes. Received 21 April 1939.

Report U-1615, 3 Jan. 1952.

TSITOVICH, I.K.; CHILIKINA, Yu.S. (g.Krasnodar)

Ion-exchanging resins. Khim. v shkole 13 no.4:23-28 J1-Ag '58.

(MIRA 11:6)

(Ion exchange) (Gums and resins)

CHILIKINA, Z.Y.

IVANOV, I.I., redaktor; MURVANDIDZE, D.S., redaktor; YEFIMOV, P.V., redaktor;
KOGAN, M.B., redaktor; KORELITSKIY, I.I., redaktor; ~~CHILIKINA, Z.Y.~~
redaktor; KOTLYAR, A.L., redaktor; MALKIYEL', B.Z., redaktor; BORISOV,
B.L., tekhnicheskiy redaktor.

[Women's and children's purses and handbags] Sumki; zhenskie, detskie,
dorozhnye. Katalog. Moskva, biuro tekhn.informatsii, TSentr.assortiment-
nyi kabinet. Pt.1. 1957. 101 p., (chiefly illus). (MLRA 10:5)

1. Russia (1923- U.S.S.R.) Ministerstvo legkoy promyshlennosti,
(Handbags)

11-4

BULGARIA/Cultivated Plants - Grains.

Abs Jour : Ref Zhur - Biol., No 9, 1958, 39259

Author : Toshev, V., Chilikov, I.

Inst : -

Title : Chinese Drought Resistant Rice in Bulgaria.

Orig Pub : Kooperat. zemledeliye, 1957, No 5, 12-13.

Abstract : No abstract.

Card 1/1

CHILIKOV, L.

GAVRILOV, V., inzh.; ~~CHILIKOV, L., inzh.~~; ADAMYAN, S., inzh.

Industrial furnaces built of large blocks. Stroitel' no.12:4-5

D '57.

(MIRA 11:2)

(Chelyabinsk--Furnaces) (Tiflis--Furnaces) (Building blocks)

AL'TSHULLER, A.N.; RYVKIN, G.M.; CHILIKOV, V.T.

Automatic control of the dimensional adjustment and automatic
exchange of cutting tools in cutting internal screw threads.

Stan,i instr. 33 no.11:22-26 N '62.

(MIRA 15:11)

(Screw cutting)

(Automatic control)

SHAKHBAYAN, Ye.S., professor; CHILINGARIDI, Ye.K.

Materials on surgery for cryptorchidism. Khirurgia no. 12:12-17
D¹ 55. (MIRA 9:7)

1. Iz gosspital'noy khirurgicheskoy kliniki I Moskovskogo ordena Lenina
meditsinskogo instituta (sav. prof. V.E.Salishchev)

(TESTES, abnorm.
cryptorchidism, surg.)

(ABNORMALITIES
same)

SOROKINA, M.I.; CHILINGARIDI, Ye.K.; KOZLOV, Yu.G.; GORBOVITSKIY, Ye.B.
(Moskva)

Treatment of acute renal insufficiency by hemodialysis using
an "artificial kidney" apparatus of Soviet manufacture. Klin.
med. no.3:27-31 '62. (MIRA 15:3)

1. Iz otdeleniya "iskusstvennaya pochka" I Moskovskogo ordena
Lenina meditsinskogo instituta (dir. - chlen-korrespondent AMN
SSSR V.V. Kovanov, glavnyy vrach B.S. Bobov, nauchnyye rukovo-
diteli - zaslužennyy deyatel' nauk prof. N.N. Yelanskiy i
prof. I.M. Epshteyn).

(RENAL INSUFFICIENCY) (KIDNEYS, ARTIFICIAL)

CHILINGAROV, D.O., inzh. (g. Tbilisi)

Reconditioning of crushing machine assemblies. Put' i put.khoz.
6 no.2:33-34 '62. (MIRA 15:2)
(Crushing machinery--Maintenance and repair)

CHILINGAROV, G.A., inzh.; POKHVISNEV, A.N., prof., doktor.

Effect of the physical structure of sinters on their metallurgical properties. Sbor. inst. stali no.38:5-44 '58. (MIRA 11:8)

1. Kafedra metallurgii chuguna Moskovskogo instituta stali im.Stalina.
(Sintering)

CHILINGAROVA, L.V.

Reclamation of highly saline soils in the right-bank area of the
Alazan' Valley. Trudy GruzNIIGiM no.20:38-43 '58. (MIRA 15:5)
(Alazan' Valley--Saline and alkali soils) (Leaching)

CHILINGARISHVILI, G. I.

Chilingarishvili, G. I. "On the problem of determining temperature stresses in the linings of pressure tunnels", Izvestiya Tbilis, nauch. - issled. in-ta sooruzheniy i gidroenergetiki, Vol. 11, 1948, p. 139-45.

SO: U-4630, 16 Sept. 53, (Letopis 'Zhurnal 'nykh Statey, No. 23, 1949).

1. CHILINGARISHVILI, G. I.
2. USSR (600)
4. Concrete
7. Planning concrete with a given coefficient of transverse deformation,
Gidr. stroi., 21, No. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

CHILINGARISHVILI, G. I.

Elastic Equilibrium of a Cylindrical Pipe in an Elastic Medium

The author presents the derivation of formulas for the determination of stresses in a thick-walled pipe set in an elastic medium and subjected to the action of an internal uniform pressure. The derivation is based on the Lamé formulas and in the opinion of the author the results are in more convenient form than the solution of B. G. Galerkin. (RZhMekh, No. 6, 1955) Izv. Tbilissk. n.-i. in-ta Sooruzheniy i Gidroeenergetiki, Vol. 5, 1953, 91-97

SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

1. The first of the two main parts of the report is a description of the results of the experiments. The second part is a discussion of the results and a comparison with the results of other experiments.

2. The first part of the report is a description of the results of the experiments. The second part is a discussion of the results and a comparison with the results of other experiments.

3. The first part of the report is a description of the results of the experiments. The second part is a discussion of the results and a comparison with the results of other experiments.

4. The first part of the report is a description of the results of the experiments. The second part is a discussion of the results and a comparison with the results of other experiments.

5. The first part of the report is a description of the results of the experiments. The second part is a discussion of the results and a comparison with the results of other experiments.

6. The first part of the report is a description of the results of the experiments. The second part is a discussion of the results and a comparison with the results of other experiments.

7. The first part of the report is a description of the results of the experiments. The second part is a discussion of the results and a comparison with the results of other experiments.

8. The first part of the report is a description of the results of the experiments. The second part is a discussion of the results and a comparison with the results of other experiments.

9. The first part of the report is a description of the results of the experiments. The second part is a discussion of the results and a comparison with the results of other experiments.

10. The first part of the report is a description of the results of the experiments. The second part is a discussion of the results and a comparison with the results of other experiments.

A Graphoanalytical Method for the Solution of a Plane (cont.)

SOV/124-58-2-2070

corresponding to a hollow cylinder (a and b being the inner and outer radii, respectively) and a part of a cylinder included between the cylindrical surfaces having the radii a and r. The above-indicated formulas enable one, with the aid of graphs of the values of T and $\bar{T}_r$, to find readily the distributions of the normal stresses

σ_r , σ_ϕ , and σ_z . At the limit the formulas provide a solution to the problem of the thermoelastic equilibrium of an infinite body with a cylindrical cavity. A solution is also given for the problem of the elastic equilibrium of a hollow cylinder contained in an elastic medium, assuming a plane axisymmetrical temperature distribution in the walls of the hollow cylinder and in the elastic medium.

V. K. Prokopov

Card 2/2

CHILINGARISHVILI, G.I., kand.tekhn.nauk

Thermal conditions of a solid concrete dam during its construction. Gidr.stroi. 30 no.7:20-24 J1 '60.
(MIRA 13:7)

(Concrete construction) (Dams)

CHILINGARISHVILI, G.I., kand.tekhn.nauk

Using a water film in controlling the temperature of concreting
at the edges of arch dams. Gidr. stroi. 30 no.11:30-36 N '60.

(MIRA 13:10)

(Dadshanur Hydroelectric Power Station--Dams)
(Concrete construction,

ACC NR: AP6035903 (A,N) SOURCE CODE: UR/0413/66/000/020/0143/0143

INVENTOR: Chilingarishvili, G. I.

ORG: none

TITLE: Device for determining stress in concrete structures. Class 42, No. 187372

SOURCE: Izobreteniya, promyshlennyye obraztsey, tovarnyye znaki, no. 20, 1966, 143

TOPIC TAGS: structural engineering, concrete, industrial instrument, ~~diagnostic instrument~~ STRAIN GAGE, STRESS ANALYSIS

ABSTRACT: An Author Certificate has been issued for a device for determining stress in concrete structures with cylindrical bodies and movable end walls. To increase its reliability the end walls are made in the form of rigid disks, and the side walls are in the form of a crimped ring with a protective layer of elastic material on its external surface. Orig. art. has: 1 figure.

SUB CODE: 11, 13/ SUBM DATE: 19Jun65/ 08.00

Card 1/1

VDC: 620.172.21.002.54

CHILINGARISHVILI, S.I.

Treating hypertension by thermal baths in Tbilisi. Vop.kur.fizioter. i
lech.fiz.kul't. 21 no.4:113 O-D '56. (MLRA 9:12)
(HYPERTENSION) (TIFLIS--BATHS)

C. Chilingarishvili, T. I.

USSR/Cosmochemistry - Geochemistry. Hydrochemistry.

D.

Abs Jour : Ref Zhur - Khimiya, No 9, 1957, 30391

Author : Eristavi, D.I., Pomerantseva, N.Ya., Chilingarishvili, T.I.

Inst :

Title : Description of Azamburskoye Mirabilite Deposit

Orig Pub : Zh. neorgan. khimii, 1956, 1, No 11, 2627-2632

Abst : In 1955 a study was conducted of one of the three mirabilite lakes (Sukhare-Tba) of the Azamburskoye deposit in Kakhetiya. Lacustrine siltyclay sediments of an area of about 0.7 km², are enclosed in Tertiary sedimentary rocks and enclose, in their turn, a lenticular body of mirabilite 0.1-6.5 m thick. Thus the lenticular body of mirabilite is not connected with the lake itself, which is in the process of drying up and consists of mirabilite brine and mud. Limits of chemical composition of mirabilite (in %): Na₂SO₄·10H₂O 77.40-95.24, NaCl 0.24-1.38, CaSO₄ 1.31-10.80, MgSO₄ up to 0.44, insoluble residue 1.47-9.28 (including

Card 1/2

USSR/Cosmochemistry - Geochemistry. Hydrochemistry.

D.

Abs Jour : Ref Zhur - Khimiya, No 9, 1957, 30391

SiO₂ 60-75%, CaO 4-10%, Fe₂O₃ + Al₂O₃ 20-35%), moisture 0.61-3.90. Clayey sediments at top and bottom of lenticular body contain Na₂SO₄·10H₂O up to 20.63%, CaSO₄ up to 5.29%, MgSO₄ up to 1.97%. In brine and pits of the lake are present (in g/liter): Na₂SO₄ 1.56-80.93, B 0.00275-0.0166, Br up to 0.4080, I up to 0.0054. Formation of mirabilite is attributed to inflow of sodium sulfate containing underground waters and saturation with salts of the lake water; at a definite concentration precipitation of Na₂SO₄, and in part of CaSO₄, takes place. The mirabilite under study is suitable for use in soda- and glass industry.

Card 2/2

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(MIRA 17:7)

1. Institut kurortologii i fizioterapii Gruzinskoy SSR, Tbilisi.

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CHILINGAROV, D.O., inzh. (Tbilisi)

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transporta (for Adrianov).

(Georgia—Quarries and quarrying)

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physical structure of an agglomerate ^{upon} ~~on~~ its metallurgic properties."
Mos, 1958. 35 pp (Min of Higher Education USSR. Mos Order of Labor
Red Banner Inst of Steel in I.V. Stalin), 120 copies (ML,22-58,110)

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CHILINGAROV, G. A.

SOV/128-58-11-24/24

Dissertations Presented for Obtaining Scientific Degree *(data not given)*
of Candidate of Technical Sciences

istochnikov zagryazneniya stali oksidnymi vklyucheniymi
 po khodu vypuska i razlivki stali); R.P. Todorov (Kiyevskiy
 politekhnicheskii institut - Kiyev Polytechnical Institute)
 Shrinkage Phenomena in Graphite Formation Processes in
 Magnesium Treated Cast Iron (Usadochnyye yavleniya v protses-
 se grafitoobrazovaniya v chugune, obrabotannom magniyem);
 M.G. Trofimov (Dnepropetrovskiy metallurgicheskii institut
 imeni I.V. Stalina - Dnepropetrovsk Metallurgical Institute
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 Materials Resistant in Rammed Lining of Induction Electric
 Steel Melting Furnaces (Izyskaniye osnovnykh vysokoogneupor-
 nykh materialov, stoykikh v nabivnoy futerovke induktsionnykh
 elektrostaleplavil'nykh pechey); K.T. Chernousova (Moscow
 Institute of Non-Ferrous Metals and Gold imeni M.I. Kalinin)
 Investigation of Crack Formation in Crystallization of Alu-
 minum Alloys (Issledovaniye treshchinoobrazovaniya pri kristal-
 lizatsii alyuminiyevykh splavov); G.A. Chilingarov (Moscow
 Institute of Steel imeni I.V. Stalin) - On the Effect of

Card 3/4

1/2 (Liteynoye proizvodstvo, 1958, No. 11, inside back cover)

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SOV/128-58-11-24/24

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1. Scientific reports

~~Card 4/4~~

2/2

M

COUNTRY : USSR
 CATEGORY : CULTIVATED PLANTS. General Problems.
 ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO. 4, 1959, No. 15544
 AUTHOR : Chilingarova, L.V.
 INST. : Georgian Scientific Research Institute of *
 TITLE : Development of the Root System of Agricultural
 : Crops in the Conditions of Saline Soils.
 ORIG. PUB. : Tr. Gryz. n.-i. in-ta gidrotekhn. i melior.,
 : 1957, vyp. 18-19, 211-217
 ABSTRACT : Investigations were made in the saline-solon-
 : chak clay soils of Alazanskaya experimental
 : land reclamation station. The greatest accum-
 : ulation of salts, predominantly sulfates, was
 : observed in the second half-meter. By washing
 : the saltiness was weakened, especially in the
 : top soil horizons down to 30 cm. In the per-
 : ennial grasses which had been grown under ir-
 : rigation, the main mass of roots (from 55
 : to 78 %) was concentrated in the tilled 20-cm.
 : horizon. Somewhat better salt resistance was

*Hydrotechny and Amelioration.
 1/4

CARD:

COUNTRY :
CATEGORY : CULTIVATED PLANTS.

ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO. 4, 1959

No. 15544

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT

shown by alkali grass and Italian ryegrass, in which 27 to 28 % of the roots were found at a depth of 30 to 50 cm.; only 12 to 18 % of the roots of blue alfalfa, dew grass and straight bromegrass penetrated to 30 to 50 cm. For winter wheat and alfalfa-cereal grass mixture in irrigated conditions, the root system distribution was similar - 82 to 84 % of the roots were concentrated in the layer 0 to 30 cm. In the plot without irrigation in case of three

CARD: 2/4

4

COUNTRY
CATEGORY

CULTIVATED PLANTS.

ABS. JOUR. REF ZHUR - BIOLOGIYA, NO. 4, 1959; No. 15544

AUTHOR
INST.
TITLE

ORIG. PUB. :

ABSTRACT

: variants in soil salinity, the winter wheat root system was, in all salt-content gradations, concentrated predominantly in the tilled horizon to 20 cm., and in the 30 to 50 cm. layer was 14 to 16 % in all, notwithstanding that where salinity was strong the salt concentration was 10 to 15 times higher than in case of weak salinity. A drastic reduction (three to four times) of root accumulation was observed, however, with increase in salinity.

CARD:

3/4

COUNTRY :
CATEGORY : CULTIVATED PLANTS.

ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO. 4, 1959;

M

No. 15544

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT

The looser texture and better aeration conditions of the tilled horizon had a rather favorable effect on the growth of the root system, while the sub-tillage horizons are characterized by dense texture and unfavorable physical, and in case of excess salinity, also chemical properties. It is essential to employ loosening of the sub-tillage horizon and other measures that raise the general fertility of the soil.

--A.A. Kornilov

CARD:

4/4

DUNIAMALYAN, V.S.; CHILINGAROVA, L.V.; PYRKOV, A.S.

Practice of improving the soda-sulfate Solonetz soils on the
right bank of the Alazani Valley. Trudy Gruz NIIGiM no.21:
77-84 '60. (MIRA 16:1)

(Alazani Valley--Solonetz soils)
(Reclamation of land)

MAMEDOV, Kh.M.; KURBANOV, M.G.; CHILINGAROV, S.A.

Some high-efficiency production methods at the P.Montin Machinery
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CHILINGAROVA, S. V.

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SSR, 1949, No. 3, s. 237-39, s. portr.

SO: LETOPIS ZHURNAL STATEY, Vol. 27, Moskva, 1949

CHILINGAROVA, S.V., kand.biolog.nauk; GABASHVILI, A.S., nauchnyy sotrudnik;
SOKHADZE, N.D., nauchnyy sotrudnik

Sanitary evaluation of the soils of school and kindergarten grounds.
(MIRA 13:5)
Gig.i san. 25 no.1:104-106 Ja '60.

1. Iz Nauchno-issledovatel'skogo instituta sanitarii i gigiyeny
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(SOIL microbiol.)

~~CHILINGARYAN, A.A.~~ GAVVA, Ye.G.

Composition of blood in connection with the age and growth of
young cattle. Izv. AN Arm. SSR. Biol. i sel'khoz. nauki. 4 no. 10:
885-900 '51. (MLRA 9:8)

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Armenyanskoj SSR.
(Blood) (Cattle)

~~CHILINGARYAN, A.A.~~: GAVVA, Ye.G.

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1. Institut zhivotnovodstva i veterinarii Ministerstva sel'-
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(HEIFERS--FEEDING AND FEEDING STUFFS)
(BUTTERFAT)

CHILINGARYAN, A.A.; PAVLOV, Ye.F.; MAGAKYAN, Yu.A.

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910 N-D '60. (MIRA 13:12)

1. Zoologicheskiy institut Akademii nauk Armyanskoy SSR, g.Yerevan.
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Dokl. AN Arm SSR 32 no.1:55-60 '61.

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